Jupiter Series 3.5 Inches HDD

160/120/80GB

An ideal solution for mainstream and high-performance personal computers

Model	J8160/J8160S	J8080/J8080S
Disk/Head	1D/2H	1D/1H
Formatted Capacity	160GB	80GB
Interface	UDMA133/SATA II	
Rotational Speed(RPM)	7200	
Cache buffer	8MB	
Average access time(ms)	8.5ms	
Head Loading Technology	Ramp Load/Unload Technology	

Features:

- 160GB per platter technology design for increased product quality and performance.
- Ramp load/unload technology provides excellent anti-shock capability.
- Fluid dynamic bearing motor for less noise.
- S.M.A.R.T Command Transport (SCT) for Adaptive error correction.
- Thermal Flyheight Control(TFC) for improved reliability.
- Native Command Queuing for faster access.
- Internal Thermal Sensor to monitor the HDD temperature.
- RoHS compliant

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160/80GB

Model Names

J8160/J8080(UDMA-133)	J8160S/J8080S(SATA II)

Configuration

Interface	PATA/SATA
Capacity (GB)	160GB/80GB
Sector size (Bytes)	512
Data heads (Physical)	2/1
Data disks	1
Max.recording density(BPI)	900K/900K
Track density(TPI)	135K/135K
Areal density(Gbits/sq-in)	120/120

Performance

Data buffer (Kbyte)	8,192
Rotational speed (RPM)	7,200
Media transfer rate(Max.Mbits/sec)	966/966
Interface transfer rate(Max.MB/sec)	133(PATA)/300(SATA)
Sustained data rate (Read,Max,MB/sec)	83
Seek time (Read, typical)*	
Average (ms)	8.5
Single track (ms)	0.8
Full stroke (ms)	15.1
Average latency (ms)	4.17

Reliability

Error rate (non-recoverable)	1in 10E14
Start/stops (at 40℃)	50K

Acoustic

Idle (Bels, Typical)	2.5
Operating-Performance seek (Bels, Typical)	3.1
Operating-Quiet seek (Bels, Typical)	2.6

* without command overhead, including settling

Power

Requirement	+5 VDC (+/-5%),+12 VDC (+10%/-8%)	
Dissipation	**PATA**	**SATA**
Startup current(Max.A)	1.90(+12V),1.10(+5V)	1.90(+12V),1.30(+5V)
Idle (watts)	4.90	5.90
Random Read/Write (watts)	9.70	10.70
Standby Average (watts)	0.90	1.90
Sleep Average (watts)	0.70	1.70

Physical Dimensions & Weight

Height (mm)	26.1
Width (mm)	101.6
Depth (mm)	147
Weight (Max.g)	560

Environmental characteristics

Operating	
Temperature	0℃ to 60℃
Relative humidity (non-condensing)	8%to 90%
Max.wet bulb (non-condensing)	29.4℃
Shock (half sine wave,2 ms)	70G
Random Vibration(RMS)	0.67G for both horizontal & vertical(XYZ)
Non-operating	
Temperature	- 40℃ to 65℃
Relative humidity (non-condensing)	5%to 95%
Max.wet bulb (non-condensing)	35℃
Shock (half sine wave,2 ms)	350G
Random Vibration(RMS)	1.04G rms(XYZ)

Specifications subject to change

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